

Beyond Elegance

MINI CENTRAL

A new innovation from Carrier



Residential



Commercial



Hotels



Nothing Beats Experience .. Nothing Beats Life With Carrier

MINI CENTRAL 53CCD Series

Technical Specifications

Size	HEAT PUMP											COOL ONLY					
	Cooling						Heating					Cooling Capacity		Cooling Input		EER	
	Capacity		Input		EER		Capacity		Input		COP W/W						
	Btu/hr	W	W	A	Btu/hr	W/W	Btu/hr	W	W	A		Btu/hr	W	W	A	Btu/hr	W/W
20	20000	5862	1915	9.2	10.44	3.06	18750	5495	1575	7.5	3.49	20000	5862	1915	9.2	10.44	3.06
28	25800	7561	2520	12.3	10.24	3.00	25000	7327	2265	10.9	3.23	25800	7561	2520	12.3	10.24	3.00
32	30700	8998	3080	15.7	9.97	2.92	26000	7620	2885	13.5	2.64	30700	8998	3080	15.7	9.97	2.92
39	39500	11577	4020	19.5	9.82	2.88	33200	9730	3260	15.8	2.98	39500	11577	4020	19.5	9.82	2.88
48	48000	14068	3955	9.5	12.14	3.56	42000	12309	3815	7.4	3.22	49500	14508	3970	9.2	12.47	3.65
60	58000	16999	5100	11.2	11.37	3.33	52000	15240	4910	10.7	3.10	57500	16852	5045	10.9	11.4	3.34

System Model		Heat Pump Cool Only	53CCD20-H 53CCD20-C	53CCD28-H 53CCD28-C	53CCD32-H 53CCD32-C	53CCD39-H 53CCD39-C	53CCD48-H 53CCD48-C	53CCD60-H 53CCD60-C
Indoor Unit Model		Heat Pump Cool Only	42CCD20-H 42CCD20-C	42CCD28-H 42CCD28-C	42CCD32-H 42CCD32-C	42CCD39-H 42CCD39-C	42CCD48-H 42CCD48-C	42CCD60-H 42CCD60-C
Outdoor Unit Model		Heat Pump Cool Only	38CCD20-H 38CCD20-C	38CCD28-H 38CCD28-C	38CCD32-H 38CCD32-C	38CCD39-H 38CCD39-C	38CCD48-H 38CCD48-C	38CCD60-H 38CCD60-C
Power Supply	Indoor	V/PH/HZ	200-240/1/50					
	Outdoor		200-240/1/50				380-420/3/50	
Refrigerant Type/Connection Type			R22 / Flare					
Refrigerant Lines	Suction OD	Inch	5/8	5/8	5/8	3/4	3/4	7/8
	Liquid OD	Inch	3/8	3/8	3/8	3/8	1/2	1/2
INDOOR UNIT								
Dehumidification		L / h	2.5	3.2	4	4.5	5.6	6.8
Air Flow rate (At 0 ESP & High speed)		c.f.m	650	675	720	1025	1200	1340
		m^3/hr	1102	1144	1220	1737	2034	2271
Sound Pressure (H / M / L)		dBA	57 / 53 / 43	57 / 51 / 48	58 / 56 / 54	60 / 57 / 54	59 / 57 / 53	60 / 57 / 55
Net Dimensions	Width	mm	1000	1000	1210	1420	1420	1630
	Height	mm	270	270	270	270	370	370
	Depth	mm	590	590	590	590	590	590
Net Weight		Kg	26	28	30	35	49	56
Drain Hose (Inner Diameter)		Inch	5/8	5/8	5/8	5/8	5/8	5/8
OUTDOOR UNIT								
Net Dimensions	Width	mm	860	860	860	860	860	860
	Height	mm	575	575	575	720	1150	1150
	Depth	mm	350	350	350	350	350	350
Net Weight		Kg	52.8	58.5	62.4	79.5	90	92

- *Cooling Capacity, Dehumidification and Energy Efficiency Ratio (EER) are based on ISO 5151 Standards:*
  26.6/19.4 °C db/wb Indoor Temperature. 35°C db Outdoor Temperature. High Air Flow
  220 volts power supply (for sizes 20-28-39) 380 volts power supply (for sizes 48-60)

- *Heating Capacity and Coefficient Of Performance (COP) are based on ISO 5151 Standards:*
  20°C db Indoor Temperature. 7/6°C db/wb Outdoor Temperature. High Air Flow
  220 volts power supply (for sizes 20-28-39) 380 volts power supply (for sizes 48-60)

Specifications are subject to change without notice according to Carrier Policy of continuous development.







Airflow Versus Static Pressure Performance

42CCD20

Fan Speed	External Static Pressure													
	in.W	Pa	in.W	Pa	in.W	Pa	in.W	Pa	in.W	Pa	in.W	Pa	in.W	Pa
	0	0	0.05	12.5	0.10	25	0.15	37.5	0.20	50	0.25	62.5	0.30	75
	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h
High	650	1102	595	1008	540	915	465	788	385	652	305	517	225	381
Medium	560	949	505	856	450	763	370	627	295	500	225	381		
Low	360	610	310	525	250	424	170	288						

42CCD28

Fan Speed	External Static Pressure													
	in.W	Pa	in.W	Pa	in.W	Pa	in.W	Pa	in.W	Pa	in.W	Pa	in.W	Pa
	0	0	0.05	12.5	0.10	25	0.15	37.5	0.20	50	0.25	62.5	0.30	75
	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h
High	675	1144	620	1051	570	966	485	822	405	686	330	559	260	441
Medium	570	966	520	881	440	746	390	661	310	525	245	415	180	305
Low	490	830	435	737	395	669	340	576	265	449	190	322		

42CCD32

Fan Speed	External Static Pressure													
	in.W	Pa	in.W	Pa	in.W	Pa	in.W	Pa	in.W	Pa	in.W	Pa	in.W	Pa
	0	0	0.05	12.5	0.10	25	0.15	37.5	0.20	50	0.25	62.5	0.30	75
	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h
High	720	1220	680	1153	625	1059	575	975	530	898	485	822	440	746
Medium	580	983	535	907	495	839	450	763	410	695	340	576	280	475
Low	470	797	430	729	380	644	350	593	290	491	225	381		

42CCD39

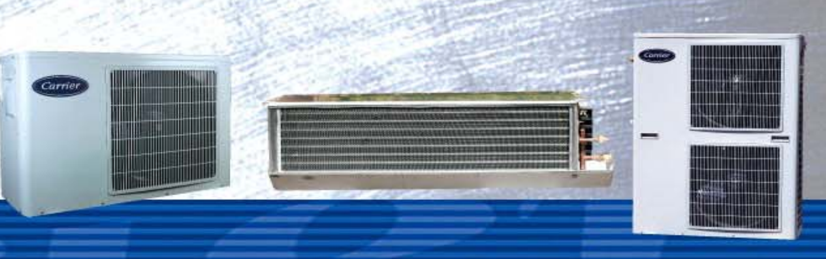
Fan Speed	External Static Pressure													
	in.W	Pa	in.W	Pa	in.W	Pa	in.W	Pa	in.W	Pa	in.W	Pa	in.W	Pa
	0	0	0.05	12.5	0.10	25	0.15	37.5	0.20	50	0.25	62.5	0.30	75
	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h
High	1030	1746	950	1610	850	1441	750	1271	655	1110	560	949	465	788
Medium	890	1508	795	1347	700	1186	595	1008	490	830	390	661	295	500
Low	710	1203	620	1051	530	898	425	720	325	551	240	407		

42CCD48

Fan Speed	External Static Pressure													
	in.W	Pa	in.W	Pa	in.W	Pa	in.W	Pa	in.W	Pa	in.W	Pa	in.W	Pa
	0	0	0.05	12.5	0.10	25	0.15	37.5	0.20	50	0.25	62.5	0.30	75
	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h
High	1200	2034	1135	1924	1065	1805	955	1619	840	1424	725	1229	610	1034
Medium	1045	1771	980	1661	915	1551	815	1381	710	1203	605	1025	500	847
Low	850	1441	780	1322	705	1195	605	1025	505	856	405	686	305	517

42CCD60

Fan Speed	External Static Pressure													
	in.W	Pa	in.W	Pa	in.W	Pa	in.W	Pa	in.W	Pa	in.W	Pa	in.W	Pa
	0	0	0.05	12.5	0.10	25	0.15	37.5	0.20	50	0.25	62.5	0.30	75
	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h	cfm	m^3/h
High	1340	2271	1270	2153	1190	2017	1110	1881	1005	1703	850	1441	665	1127
Medium	1120	1898	1070	1814	1005	1703	930	1576	820	1390	680	1153	525	890
Low	970	1644	920	1559	850	1441	775	1314	660	1119	540	915	390	661







MINI CENTRAL

Features

Super Control and Safety Protections

- Standard factory supplied room controller to be mounted on the wall.
- Optional wireless remote control used with standard room controller
- Auto restart feature.
- 3 (Three) minutes time delay for compressor.
- 90 seconds minimum operation time for compressor to allow sufficient time for oil to return to the compressor.
- Dry mode reduces humidity by computerized dehumidification.
- Sleep function provides healthy sleep environment with energy saving.
- ON Timer Function
- OFF Timer Function
- Key lock mode to prevent change of operation settings.
- Frost prevention of indoor coil when the system is operating in cool mode.
- Defrost protection of outdoor coil when the system is operating in heat mode.
- Cold draft protection when the system is operating in heat mode to prevent cold air from blowing into the space to be air-conditioned.

Super Compact Technology

- Compact indoor unit for easy installation above false ceiling.
- Compact outdoor unit.

Super Efficient and Tropical with Minimum Energy Consumption

- Innovative Carrier Heat Transfer and Aerodynamics Technology with efficient compressor and coils leading to Hi-Tech. AMS (Air Management System).

Super Quiet

- Newly designed sound minimized air management system provides noise-free operation.
- Carrier uneven aerofoil fan and propeller fan technologies for smooth air flow and quiet operation.

Reliability

- Standard galvanized sheet metal casing protects against rust.
- Polyester powder coated drain pan for extra rust protection.

Super Easy Installation

- Standard return air plenum complete with air filters.
- Field interchangeable piping connections from right to left hand side to suit various applications.

Super Easy Service & Maintenance

- Integral high-pitched V-shaped drain pan minimizes wet surface and residual water during off cycles and inhibits the growth of bacteria that may cause smells.
- Self-diagnostics to determine malfunctions due to incorrect installation or abnormal use.
- Easy access to components.

Extra Super safety protections

- Thermistor to protect the compressor against refrigerant leak.
- Crankcase heater to guard the compressor against flood back conditions and to eliminate oil fluffing on start up (only for sizes 48-60).
- Internal overloads for compressor and motor(s).
- External sensitive quick trip overload to protect the compressor against excessive current (only for sizes 48-60).



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